

WHAT IS CLAIMED IS:

1. Safety ski binding incorporating a toe and a heel binding and an electronic circuit arrangement, comprising a computer unit and a memory system as well as a sensor system for detecting at least one set safety release value of the safety ski binding, characterised in that the circuit arrangement has at least one electronic evaluation device with a software-driven, programmable micro-controller, and the micro-controller has a non-volatile memory system or is connected to a non-volatile memory system, the micro-controller being programmed to store manually altered settings of the safety release values and/or changing states of the safety ski binding detected by the sensor system in the memory system.

2. Safety ski binding as claimed in claim 1, characterised in that an electronic evaluation device, each having at least one sensor for detecting the respective safety release values, is provided in both the toe binding and in the heel binding.

3. Safety ski binding as claimed in claim 2, characterised in that both evaluation devices have a separate power supply system and transmitter and/or receiver device for operating a wireless, one-way or two-way data or signal transmission between them.

4. Safety ski binding as claimed in claim 1, characterised in that an evaluation device disposed in the toe binding and/or an evaluation device disposed in the heel binding is wired to a display device, in particular a display with graphic capa-

bility, for displaying settings or states of the safety ski binding.

5. Safety ski binding as claimed in claim 2, characterised in that the evaluation device in the toe binding and/or the evaluation device in the heel binding has an electronic, non-volatile memory system for storing a prevailing set safety release value and at least one previously valid safety release value.

6. Safety ski binding as claimed in claim 1, characterised in that the evaluation device has an electronic date and/or time module for logging states or status changes detected by the sensors correlated with date and/or time data.

7. Safety ski binding as claimed in claim 1, characterised in that the evaluation device has a counter for counting periods of time, such as activation hours or operating days, for example.

8. Safety ski binding as claimed in claim 1, characterised in that the sensor system has at least one sensor for determining or checking a forward pressure of a slip-on spring system of the heel binding relative to a ski shoe.

9. Safety ski binding as claimed in claim 1, characterised in that the sensor system has at least one sensor for detecting the open and/or closed state of the heel binding.

10. Safety ski binding as claimed in claim 1, characterised in that

the evaluation device has at least one interface for reading the values and data logged in the non-volatile memory system.

11. Safety ski binding as claimed in claim 1, characterised in that a transmitter and/or receiver device is programmed to read the values and data logged in the memory system.

12. Safety ski binding as claimed in claim 1, characterised in that the non-volatile memory system is provided in the form of a memory with stable memory contents and without a power supply, in particular in the form of an EEPROM memory or a flash memory.

13. Safety ski binding as claimed in claim 1, characterised in that a transmitter and/or receiver device or an interface with contacts is designed to transmit data signals to an electronic computer unit and/or receive data signals from a peripheral, electronic computer unit, in particular a wrist-top computer, a handheld computer, a mobile telephone or any other mobile electronic unit.